

# Microsoft Power Platform Developer



# Online Course



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## Course Modules



### 1. Design technical architecture

- Design the technical architecture for a solution
- Design authentication and authorization strategy
- Reqmt can be met with out-of-the-box functionality
- Use Logic Apps versus MS Power Automate cloud flows
- Use serverless computing, plug-ins, or Power Automate
- Use standard tables, virtual tables, or connectors
- Security capabilities of the Microsoft Power Platform

### 2. Design solution components

- Design a Microsoft Dataverse data model
- Design Power Apps reusable components
- Design custom connectors
- Design Dataverse code components
- Design automations\
- Design Azure inbound and outbound integrations

### 3. Microsoft Power Platform to support development

- Troubleshoot operational security issues found in testing
- Dataverse security roles and column-level security profiles
- Configure business units and teams
- Microsoft Power Platform environments for development



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## 4. Configure tables

- Configure table options
- Configure columns
- Configure relationships
- Configure business rules



## 5. Implement application lifecycle management (ALM)

- Create solutions and manage solution components
- Import and export solutions
- Manage solution dependencies
- Create and use environment variables
- Describe the diff bet unmanaged and managed solutions
- Manage solution layers

## 6. Create model-driven apps

- Create and configure a model-driven app
- Configure forms
- Configure views
- Configure commands and buttons using Power Fx
- Configure commands and buttons using JavaScript

## 7. Create canvas apps

- Create and configure a canvas app or a custom page
- Implement complex Power Fx formulas
- Build reusable component libraries
- Test an app by using Power Apps Test Studio





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## 8. Manage and troubleshoot apps

- Troubleshoot canvas and model-driven app issues
- Identify and resolve connector and API errors
- Optimize canvas app performance
- Optimize model-driven app performance



## 9. Apply business logic using client scripting

- JavaScript code that targets the Client API object model
- Describe event handler registration options
- Create client scripting that targets the Dataverse Web API
- Describe the client API object model
- Determine when to use business rules or client scripting

## 10. Power Apps Component Framework (PCF)

- Describe the code component lifecycle
- Initialize a new code component
- Configure a code component manifest
- Implement component interfaces
- Package, deploy, and consume a component
- Config & use Device, Utility, and Web API features

## 11. Process workloads by using Azure Functions

- Process long-running operations by using Azure Functions
- Config scheduled & event-driven triggers in Azure Functions
- Authenticate to Microsoft Power Platform

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## 12. Create a Dataverse plug-in

- Describe the plug-in execution pipeline
- Describe the plug-in execution context
- Develop a plug-in that implements business logic
- Pre Images and Post Images to support plug-in logic
- Perform operations in plug-ins
- Optimize plug-in performance
- Configure a Dataverse Custom API message

## 13. Create custom connectors

- Create an Open API definition for a REST API
- Configure API security
- Policy templates to modify connector behavior at runtime
- Import definitions from existing APIs
- Create a custom connector for an Azure service
- Create an Azure Function to be used in a custom connector
- Extend an Open API definition for a custom connector

## 14. Use platform APIs

- Perform operations with the Dataverse Web API
- Perform operations with the Organization service
- Implement API limit retry policies
- Performance, concurrency, transactions, and batching
- Perform authentication by using OAuth



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## 15. Configure Power Automate cloud flows

- Create and manage cloud flows
- Flow steps to use Dataverse connector actions and triggers
- Implement complex expressions in flow steps
- Manage sensitive input and output parameters
- Azure Key Vault and Microsoft Entra service principals
- Describe flow control actions including error handling
- Add a cloud flow step to a business process flow
- Configure trigger filter and retry policies

## 16. Publish and consume Dataverse events

- Dataverse event using IServiceEndpointNotificationService
- Dataverse event using the Plug-in Registration Tool
- Register service endpoints
- Describe options for listening to Dataverse events

## 17. Implement data synchronization with Dataverse

- Describe synchronizing data by using change tracking
- Read table change records by using platform APIs
- Create and use alternate keys
- Use the UpsertRequest message to synchronize data



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